PATENT SPECIFICATION

DRAWINGS ATTACHED

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899,712

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International Classification:—B62b. B25h.

COMPLETE SPECIFICATION

A new or improved Mobile Platform for Facilitating the Handling of Objects whilst subjecting them to an Operation during manufacture, Packing, or the like

We, THE THAMES SACK & BAG COMPANY LIMITED, a British Company, of Smithfield Wharf, Furze Street, Bow, London, E.3, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention concerns a new or improved mobile platform for facilitating the handling of objects and especially relatively heavy objects, whilst subjecting them to an operation during manufacture, packing or the like and has particular reference to a mobile platform for use in the operation of closing by sewing a filled bag, e.g. a bag filled with powder, pulverulent, granular or like material. The bags to be operated on vary in size and weight, but the effort expended by an operator in repeatedly presenting filled bags to a sewing machine for closing, even if relatively little for individual bags, becomes considerable and fatiguing when large numbers of bags have to be sealed.

The sealing of bags is frequently achieved by a portable sewing machine which is held by hand, or suspended by flexible cable or the like, over a bag and whether it is the sewing machine that is taken to the bag or the bag that is taken to the sewing machine, the cumulative effect of this work is very tiring.

It is therefore an object of this invention to provide means to facilitate the movement of objects, and in particular filled bags, to apparatus for performing an operation thereon, but, although the invention is especially concerned with presenting bags to a sewing machine for closing and/or sealing by a sewing operation, it should be understood that the invention could be applied in performing many kinds of operations, for example a soldering operation on a variety of objects, e.g. radio equipment.

According to this invention there is provided a mobile platform comprising a trolley which is capable of being wheeled from one position to another and is furnished with a support for the object to be operated upon and a pillar upon which may be mounted the equipment for effecting the required operation, means being provided for effecting a relative movement between the object support and the operation effecting equipment so that the object to be operated upon may be placed upon said support, and relative movement between the latter and the said equipment effected both to bring them into correct operative position and to separate them after the operation has been carried out.

It will be appreciated that a mobile platform according to this invention can be taken to any desired position in a factory or elsewhere where it is required to perform the operation upon the objects being handled and that it is not necessary for these objects to be brought to the mobile platform, although the latter may be used as a static apparatus if desired and the objects to be operated upon brought to the platform which still facilitates the operation on the objects since it renders the work of bringing the objects into and out of registration with the said equipment easy and relieves the operator of the weight of the object and/or of the equipment for operating thereon.

Preferably, the said support is mounted for reciprocation along the trolley and thus, according to a further aspect of this invention, there is provided a mobile platform comprising a carriage reciprocable along a trolley which is capable of being wheeled from one position to another and is furnished with a pillar upon which may be mounted the equipment for effecting the required operation, the arrangement being such that the ob-

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Price 25p

ject to be operated upon may be placed upon said carriage and the latter moved along the trolley first to present the object to the said equipment for operation thereon and then to move the object away from such equipment for removal from the carriage.

The carriage is preferably mounted on appropriate roller or other anti-friction bearings so as to move easily along the trolley.

If desired, the said carriage may be biassed towards one end of the trolley, e.g. by spring means, so that the carriage has to be moved against said biassing to the other end of the trolley but, when subsequently released, automatically moves back to its original position.

According to a further feature of the invention the said trolley is furnished with wheels only at or near one end and with feet or equivalent supporting means (hereinafter called "feet") at the other end, the arrangement being such that the trolley can be picked up at the end furnished with the said feet and wheeled around and then the feet carrying end of the trolley deposited on the floor so that the feet will frictionally engage the floor and hold the trolley against movement.

Preferably, the said feet are adjustable to vary the height above the floor of the end of the trolley at which such feet are provided so that the trolley may be arranged to incline downwardly from the wheel-provided end thereof so that, in the case of a trolley provided with a reciprocable carriage, the objects being handled may be placed on the carriage at the feet-provided end of the trolley and slidden longitudinally along the latter to the wheel provided end thereof, then removed from the trolley and the platform thereafter permitted to return gravitationally to the feet-provided end of the trolley.

Alternatively, or in addition, means e.g. spring means, may be provided for returning the sliding carriage to the feet-provided end of the trolley, although this will not generally be necessary unless it is preferred to have the trolley with the carriage either horizontal or sloping downwardly towards the wheel-provided end of the trolley.

Where the said pillar is fixedly mounted on the trolley, such pillar is conveniently arranged centrally of the length of the trolley, although it could be arranged in any other desired position thereon.

According to a further feature of the invention, the said pillar may be removable from the trolley so that the latter could, if desired, be used as a simple carrier or truck for articles.

The said pillar conveniently carries a slidable head on which the said equipment may be mounted, means being provided for locking said head in any vertically adjusted position.

The mobile platform of this invention is particularly suitable for use in the closing and/or sealing of relatively large paper and like bags containing say 28 lbs. to 1 cwt. of material, e.g. cement, by means of what is normally a portable sewing machine such as, for example, that described in Patent Application No. 20898/56 (Serial No. 844,443) and which is furnished with an attachment for feeding a sealing strip between the head of the sewing machine for folding over the closed mouth of the bag and securing such strip in this position automatically by the sewing machine as this sews up the mouth of the bag.

In the case where the equipment is a portable electrically operated sewing machine, the said head, besides having means for detachably carrying the sewing machine, is also preferably furnished with the necessary means for making electrical connections to the sewing machine and to a source of electrical power.

Advantageously the said electric connections include a foot operated switch either on the trolley or capable of being located adjacent to the latter and preferably in front of the same.

As the articles with which the mobile platform according to this invention is intended to be used may, at different times, be of different heights, means are preferably provided for adjusting the apparatus to suit such different heights without the necessity for positioning the head below, a convenient height for the operator and so to avoid fatiguing the operator through stooping. In a convenient arrangement, the trolley is provided with one or more tables which may be mounted on the object support or carriage so as to provide a supporting surface spaced above the upper surface of the latter. If desired, two or more of such tables may be superposed on one another on the carriage and the tables may be of the same height or of different heights so as to enable a variety of different working heights to be attained.

Preferably, the lowermost table will interlock with the carriage, for example by having legs, the lower ends of which are adapted to fit into recesses or sockets in or on the carriage. The superposed tables will also preferably interlock with one another. Thus the lower ends of the legs of the upper tables may be adapted to fit into sockets in the table immediately below or, alternatively, the legs of the tables may be made of tubular form so that the lower part of the legs of one table may fit within the upper part of the legs of the table below.

In order that this invention may more readily be understood, one embodiment of the same will now be described by way of example and with reference to the accompanying drawings in which:—

Figure 1 is a perspective view of a mobile platform according to this invention;

Figure 2 is a side elevation of the platform of Figure 1; and

Figure 3 is an underneath plan of the platform of Figures 1 and 2.

In the embodiment illustrated in the drawings, the mobile platform comprises a trolley 1 which is formed by a pair of longitudinally extending parallel metal angle section members 2 having horizontal flanges extending inwardly towards one another and being rigidly spaced apart and inter-connected by transverse members 3, 4 and 5. The member 3 is a metal rod having reduced ends passing through the vertical flange of the longitudinal members 2, these reduced ends being screw threaded and the member 3 secured between the members 2 by nuts 6 engaged on the outer ends of the reduced portions of the member 3. The transverse member 4 is a metal bar of angle section and is conveniently welded at its ends to the longitudinal members 2. The transverse member 5 conveniently comprises a rectangular bar which extends between and is welded at its ends to ends of the longitudinal members 2 remote from the transverse member 3. It will be appreciated that the transverse members 3, 4 and 5 could be of forms different from that shown in the drawings. However, the member 3 is, in this embodiment, of cylindrical form so as to form a convenient handle by which the trolley may be wheeled from place to place.

At the end opposite to the transverse member 3, the trolley 1 is furnished with a pair of dependent lugs 7 carrying a horizontal transverse axle 8, the outer ends of which carry wheels 9 by which the trolley may be wheeled from place to place. The wheels 9 are conveniently rubber tyred wheels and an axle 8 preferably is mounted within a bearing sleeve 10 which extends between and is secured, e.g. welded, to the lugs 7. The lugs 7 conveniently extend as shown at an angle to the length of the longitudinal members 2 and have their outer ends braced by a tie rod 11.

At the end of the trolley 1 opposite to the wheels 9, the trolley is furnished with vertically arranged internally screw threaded bosses 12, conveniently welded to the vertical flanges of the members 2, and in each of these boses 12 is mounted the externally screw threaded stem of a foot member 13 which is provided at its lower end with a foot 14, conveniently formed of, or faced with, rubber. Vertical adjustment of the foot members 13 is achieved by rotating the stems of these members in the bosses 12 and, advantageously, locking nuts 15 are provided to lock the foot members in any adjusted position.

Upon the upper side of the trolley 1 is slidably mounted a carriage 16 provided on its underside with runners 17 in the form of rollers mounted on anti-friction bearings and engaging respectively above and below the horizontal inwardly directed flanges of the longitudinal members 2 of the trolley, the arrangement being such that the carriage 16 can slide very easily from end to end of the trolley. Conveniently the length of the carriage is slightly less than half the length of the trolley.

At the end adjacent the transverse member 3, the trolley angle section members 2 are provided with stops 18 which limit the extent to which the carriage 16 can move towards this end of the trolley. If desired, the stops 18 could be replaced by a single bar, conveniently of circular cross-section, extending across the trolley. Alternatively, or in addition, a stop or stops could be provided at the other end of the trolley.

At the centre of the trolley frame, and at one longitudinal side thereof, is fixed the lower end of a vertical pillar 19. This pillar 19 comprises a bracket 20 shaped as shown and welded or otherwise secured to one of the members 2 centrally of the length of the latter and to the upper end of this bracket are fixed in vertical positions a pair of parallel metal rods 21 which project upwardly to a height greater than that of the tallest bag with which the mobile platform is likely to be used. At the head of the rods 21 is provided a cap 22 which acts to brace the rods together at their upper ends.

On the pair of parallel rods 21 is mounted for sliding movement a vertically adjustable head 23 upon which a sewing machine or other equipment can be carried. This head 23 is formed in two parts, one adapted to be arranged on each side of the pillar 19 and each part having vertical grooves adapted to register with one another and to receive between them the two parallel vertical rods 20, means, such as the nut and screw arrangement 24 illustrated, being provided for drawing the two parts of the head 23 together in order to clamp it in any vertically adjusted position on the pillar.

The part of the sliding head 23 which lies over the trolley 1 is furnished with a two-part forwardly extending extension arm 25 and with means, e.g. the clamping screw 26, for securing to this arm the equipment, i.e. a portable bag sewing machine, to be used on the apparatus, the arrangement being such that the equipment can be applied to, and removed from, the pillar 19 easily and quickly. The adjustable head 23 is also furnished with a socket 27 connected with an electric power source by a lead 28 and junction box 29 mounted on the bracket 20 at the lower end of the pillar 19. The socket 27 enables electric power to be supplied to the equipment mounted on the head 23. Conveniently the supply of power to the socket 27 is controlled by a foot operated switch formed separately of the mobile platform and adapted to be positioned by the operator in any location

convenient to himself.

It will be appreciated that, by mounting a bag sewing machine on a portable mobile platform as hereinbefore described, the advantages of static sewing machines, which are frequently preferred, are obtained whilst it is possible to move the mobile platform nearer to a bag filler and weighing device so that the bag may be filled, weighed, topped up and sewn on or sealed quickly without material fatigue to the operator and with adequate control and the bag is firmly supported so that a rectilinear row of stitching is inserted in the latter instead of a sinuous or irregular one. Moreover, it will be appreciated that the portable bag sewing machine may still be used as a portable machine when required.

The electric cables employed, particularly that to the electric foot switch, will preferably be of the armoured type and a pilot light may be provided on the head 23 to indicate when power is being supplied to the socket 27. If desired, this light or a further light may be employed to illuminate the operation being performed by the equipment mounted on the head 23.

WHAT WE CLAIM IS:—

1. A mobile platform comprising a trolley which is capable of being wheeled from one position to another and is furnished with a support for the object to be operated upon and a pillar upon which may be mounted the equipment for effecting the required operation, means being provided for effecting a relative movement between the object support and the operation effecting equipment so that the object to be operated upon may be placed upon said support and relative movement between the latter and the said equipment effected both to bring them into the correct operative position and to separate them after the operation has been carried out.

2. A mobile platform comprising a carriage reciprocable along a trolley which is capable of being wheeled from one position to another and is furnished with a pillar upon which may be mounted the equipment for effecting the required operation, the arrangement being such that the object to be operated upon may be placed upon said carriage and the latter moved along the trolley first to present the object to the said equipment for operation thereon and then to move the object away from such equipment for removal from the carriage.

3. A mobile platform according to Claim 2 wherein said carriage is mounted on appropriate roller or other anti-friction bearings.

4. A mobile platform according to Claim 2 or 3 wherein the said carriage is biassed towards one end of the trolley.

5. A mobile platform according to claim 4, wherein the said carriage is biassed by spring means.

6. A mobile platform according to any of the preceding Claims, wherein the said trolley is furnished at one end with wheels and at the other end with feet.

7. A mobile platform according to Claim 6, wherein the said feet are adjustable to vary the distance at which the feet-provided end of the trolley is supported above the surface on which the platform rests during use.

8. A mobile platform according to any of the preceding claims, wherein the said pillar is fixedly mounted on the trolley centrally of the length thereof.

9. A mobile platform according to any of the preceding claims, wherein the said pillar is removable from the trolley so that the latter may, if desired, be used as a simple carrier or truck for articles.

10. A mobile platform according to any of the preceding claims wherein the said pillar carries a slidable head on which the said equipment may be mounted, means being provided for locking said head in any vertically adjusted position.

11. A mobile platform according to any of the preceding claims, wherein the said pillar or head thereon is adapted to receive detachably a portable sewing machine.

12. A mobile platform according to claim 11, and intended to carry a portable electrically operated sewing machine, wherein the said pillar or head also includes means for making electrical connections easily to the sewing machine and to a source of electrical power.

13. A mobile platform according to claim 12, wherein the said electrical connections include a foot-operated switch.

14. A mobile platform according to any of the preceding claims and including one or more tables mountable on the object support or carriage.

15. A mobile platform according to claim 14, wherein the or each table is adapted to interlock with the object support or carriage.

16. A mobile platform according to claim 15, wherein the or each table has legs the lower ends of which fit into recesses or sockets in the object support or carriage.

17. A mobile platform according to claim 14, 15 or 16, wherein a plurality of tables which may be superimposed on one another is provided and each table has legs the lower ends of which fit into recesses or sockets in the upper part of one or more of the other tables.

18. A mobile platform according to claim 17, wherein the said table legs are hollow and the upper parts of such legs form sockets for the legs of a superimposed table.

19. A mobile platform according to any of the preceding claims and including a sewing machine mounted on the said pillar.

20. A mobile platform substantially as hereinbefore described with reference to and as shown by the accompanying drawings.

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PROVISIONAL SPECIFICATION

A new or improved Mobile Platform for Facilitating the Handling of Objects whilst subjecting them to an Operation during manufacture, Packing, or the like

We, THE THAMES SACK & BAG COMPANY LIMITED, a British Company, of Smithfield Wharf, Furze Street, Bow, London, E.3, do hereby declare this invention to be described in the following statement:—

This invention concerns a new or improved mobile platform for facilitating the handling of objects, and especially relatively heavy objects, whilst subjecting them to an operation during manufacture, packing or the like and has particular reference to a mobile platform for use in the operation of closing a filled bag, e.g. a bag filled with powdered, pulverulent, granular or like material, by sewing. The bags to be operated on vary in size and weight but the effort expended by an operator in repeatedly presenting filled bags to a sewing machine for closing, even if relatively little for individual bags, becomes considerable and fatiguing when large numbers of bags have to be sealed.

The sealing of bags is frequently achieved by a portable sewing machine which is held by hand, or suspended by flexible cable or the like, over a bag and whether it is the sewing machine that is taken to the bag or the bag that is taken to the sewing machine, the cumulative effect of this work is very tiring.

It is therefore an object of this invention to provide means to facilitate the movement of objects, and in particular filled bags, to apparatus for performing an operation thereon, but although the invention is especially concerned with presenting bags to a sewing machine for closing and/or sealing by a sewing operation, it should be understood that the invention could be applied in performing many kinds of operations, e.g. a soldering operation on a variety of objects, e.g. radio equipment.

According to this invention there is provided a mobile platform which comprises a carriage reciprocable along a trolley which itself is capable of being wheeled from one position to another and which is furnished with a pillar upon which may be mounted the equipment for effecting the required operation, e.g. closing a bag by sewing, so that the object to be operated upon may be placed upon said carriage and the latter moved along the trolley first to present the object to the said equipment for operation, e.g. closing, thereon and then to move the object away from such equipment for removal from the carriage.

It will be appreciated that a mobile platform according to this invention can be taken to any desired position in a factory or elsewhere where it is required to perform the operation upon the objects being handled and that it is not necessary for these objects to be brought to the mobile platform although the mobile platform may be used as a static apparatus if desired and the objects to be operated upon brought to the platform which still facilitates operation on the objects since it renders the work of advancing the objects to and withdrawing them from the said equipment easy and relieves the operator of the weight of the object and/or of the equipment for operating thereon.

For simplicity in description the invention will subsequently be described herein with reference to the closing and/or sealing of relatively large paper and like bags containing say 28 lbs. to 1 cwt. of material, e.g. cement, by means of what is normally a portable sewing machine such as, for example, that described in Patent Application No. 20898/56 (Serial No. 844,443) and which is furnished with an attachment for feeding a sealing strip between the head of the sewing machine for folding over the closed mouth of the bag and securing in this position automatically by the sewing machine as this sews up the mouth of the bag.

According to a further feature of the invention the said trolley is furnished with wheels only at or near one end and with feet (or equivalent supporting means) at the other end, the arrangement being such that the trolley can be picked up at the end furnished with the said feet and wheeled around and then the feet carrying end of the trolley deposited on the floor so that the feet will frictionally engage the floor and hold the trolley against movement as bags are traversed along the trolley on the sliding carriage.

Preferably the said feet are adjustable vertically to vary the height of their end of the trolley so that the latter can be arranged to incline downwardly from the wheel-provided end thereof in order that bags may be placed on the carriage at the feet-provided end of the

trolley and slidden longitudinally along the latter to the wheel-provided end thereof (the bags being operated upon by the sewing machine in the meantime), then removed from the trolley, and the platform permitted to return gravitationally to the feet-provided end of the trolley.

Alternatively, or additionally, spring means may be provided for pulling the sliding carriage back to the feet-provided end of the carriage although this will not generally be necessary unless it is preferred to have the trolley arranged horizontally or sloping downwards towards the wheel-provided end thereof instead of sloping downwards to the feet-provided end as above described.

The carriage is preferably mounted on appropriate roller or other anti-friction bearings so as to move very easily along the trolley.

The said pillar is conveniently arranged centrally of the length of the trolley although it could be arranged in other positions thereon if desired and may be adjustable along the length of the trolley; it could be removable from the trolley and the latter than used as a simple carrier or truck for articles. The pillar may be of any suitable form and is furnished with guides on which is mounted a slidable head movable up and down on the pillar and having means for locking it in any vertically adjusted position on the latter, this head being adapted to receive detachably a portable sewing machine, particularly one of the kind hereinbefore referred to, and being furnished with the necessary means for making electrical connection easily to the said sewing machine and to a source of electric power, said electric connections preferably including a foot-operated switch either on the trolley or capable of being located adjacent the latter and preferably in front of the same near the position at which the bag closing operation will be performed, whereby all that the operator has to do is to exert light pressure on the bag and cause the carriage to slide from the loading end of the trolley towards the sewing machine and then to guide the mouth of the bag through the sewing machine and eventually to push the bag with the carriage to the discharge end of the trolley, the bag then being removed and the carriage freely sliding back to the feet-provided end of the trolley.

As the bags with which the mobile platform according to this invention may be used may, at different times, be of very different heights, means will preferably be provided for adjusting the apparatus to suit these different bag heights so that it is not necessary to lower the adjustable head below a convenient height for the operator and so to avoid fatiguing the operator through stooping. Various arrangements are possible, but a preferred and simple arrangement is to provide one or more tables mountable on the carriage and adapted to support a bag on the latter. If desired two or more of such tables may be superposed on one another on the carriage and all the tables may be of the same height or tables of different heights may be provided to enable a variety of different "working" heights to be attained. Preferably the lowermost table will interlock with the carriage, e.g. by having its legs furnished with flanges spaced from the lower ends thereof and these ends fitting into recesses or sockets in or on the carriage, whilst superposed tables would also preferably interlock with one another as by furnishing the lower ends of the upper table or tables with spigot portions (e.g. flanged lower ends) with fit into holes in the table immediately below, and by making the legs of the tables of tubular form and the legs of the several superposed tables registrable with one another, this arrangement is simplified and made very inexpensive.

In order that the invention may be more readily understood one embodiment of the same will now be described by way of example

In this embodiment the trolley comprises a pair of longitudinally extending parallel metal angle section members having their horizontal flanges extending inwardly towards one another and then other flanges depending vertically, these two members being rigidly spaced apart and interconnected by transverse members which may comprise metal rods passing through the vertical flanges of the said angle section longitudinal members and bearing spacer tubes between the said flanges or having reduced ends passing into the said vertical flanges and furnished with nuts on their outer ends. Alternatively the rods may be supplemented or replaced by one or more cross bars of angle or T-section or of other suitable form.

At one end the trolley has a pair of dependent lugs with bearing bosses for a horizontal transverse shaft the outer ends of which carry rubber tyred wheels, one arranged on each side of the trolley frame and on which wheels the trolley may be wheeled about.

At the end opposite to that provided with the said wheels, the frame of the trolley is furnished near its corners with vertical internally screw threaded bosses conveniently welded to the sides of the frame and in each of these bosses is mounted the vertical screw threaded stem of a foot member which may, at its lower end, be formed of or faced with rubber, vertical adjustment of these feet members being achieved by rotating the said stems in the said vertical bosses.

Upon the upper side of the said trolley frame is slidably mounted a carriage or platform which may be formed of sheet metal or in any other suitable way, this platform being provided with runners which are conveniently in the form of rollers mounted on anti-friction bearings for engaging respectively above and

below the horizontal inwardly directed flanges of the longitudinal angle section members of the said frame, the arrangement being such that the said platform can slide very easily from end to end of the trolley. Conveniently the length of the platform will be slightly less than half the length of the trolley frame.

At the centre of the trolley frame, and at one longitudinal side thereof, is fixed the lower end of a vertical pillar. This pillar comprises a bracket formed of lengths of angle section metal formed into a truncated V-shape and welded or otherwise secured to one of the said longitudinal members of the trolley frame centrally of the length of the latter and to the upper end of this bracket are fixed in vertical positions a pair of parallel metal rods which project upwardly to a height greater than that of the tallest bag with which the mobile platform is likely to be used. At the head of these rods is provided a tie bar or cap bracing the rods together and a third rod extends downwardly and somewhat outwardly from this bar or cap to a lug or base plate on the bracket carrying the lower ends of the said pair of parallel rods, thereby to give a triangulated construction rendering the said pillar rigid.

On the said pair of parallel rods is mounted for sliding movement a vertically adjustable head upon which a sewing machine or other equipment can be carried. This head is formed in two parts, one adapted to be arranged on each side of the pillar and each part having vertical grooves adapted to register with one another and to receive between them the two parallel vertical rods of the pillar, means (such as a screw and nut) being provided for drawing the said two parts of the head together in order to clamp it in any vertically adjusted position upon the pillar. Instead of this screw and nut arrangement, a quick action toggle or other system may be used for locking the head in the desired position upon the vertical pillar.

The part of the said sliding head which lies over the trolley is furnished with a forward extension arm and with means for securing thereto the equipment, such as a portable bag sewing machine, to be used on the machine, the arrangement being such that the machine can be applied to, and removed from, the said pillar easily and quickly.

The said adjustable head is also furnished with plugs or sockets to make the necessary electrical connections from the supply source to the head of the mobile platform and from thence to the electric sewing machine or like equipment mounted on such head and also to provide an electric connection to a foot operated switch conveniently formed separately of the mobile platform and adapted to be positioned by the operator conveniently to himself.

The mobile platform is adapted to be used in the manner hereinbefore explained and it will readily be appreciated that by mounting a bag sewing machine on a portable mobile platform of this kind the advantages of static sewing machines, which are frequently preferred, are obtained whilst it is possible to move the mobile platform nearer to a bag filler and scales so that the bag may be filled, weighed, topped up and "sewn off" or sealed quickly without material fatigue to the operator and with adequate control and the completely firm supporting of the bag so that a rectilinear row of stitching is inserted therein instead of a sinuous or irregular one.

Moreover, it will be appreciated that the portable bag sewing machine may be used either as a portable machine in the usual way or used as a static sewing machine with the aid of a platform according to this invention.

The electric cables employed, particularly the one to the electric foot switch, will preferably be of the armoured type, and a pilot light may be provided on the said adjustable head to indicate when the switch is on or off and if desired this light or a further light may be employed to shine on to the sewing head to enable the operator thoroughly to supervise the bag sealing operation.

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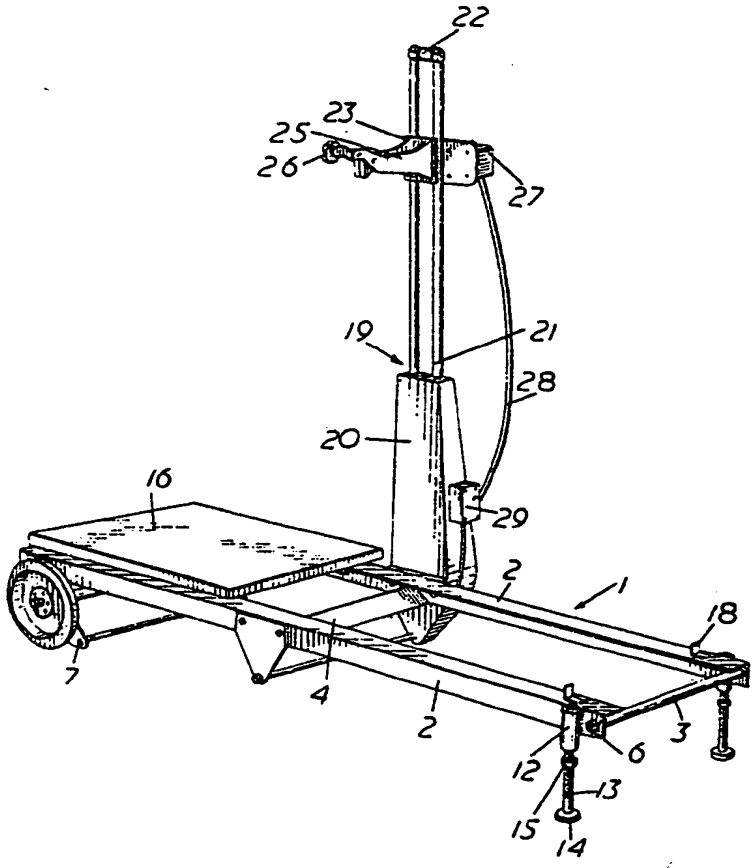
Published by The Patent Office, 25, Southampton Buildings, London, W.C.2, from which copies may be obtained.

FIG. 1.



899,712 COMPLETE SPECIFICATION
2 SHEETS

This drawing is a reproduction of the Original on a reduced scale.
SHEETS 1 & 2

FIG. 2.

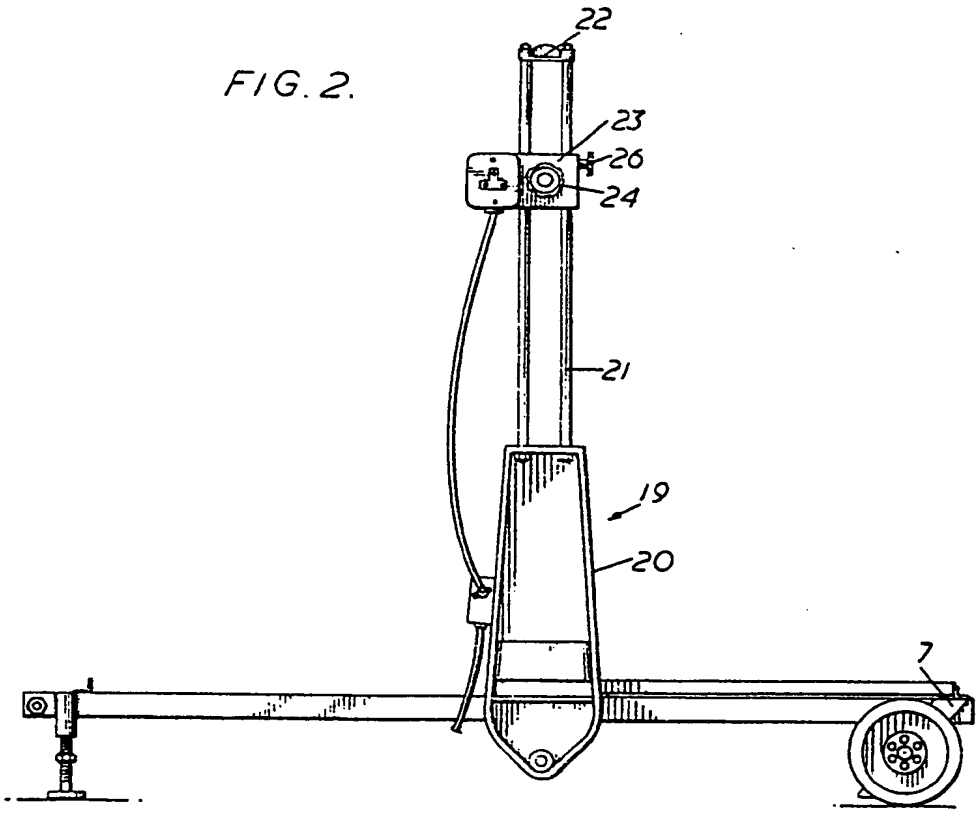


FIG. 3.

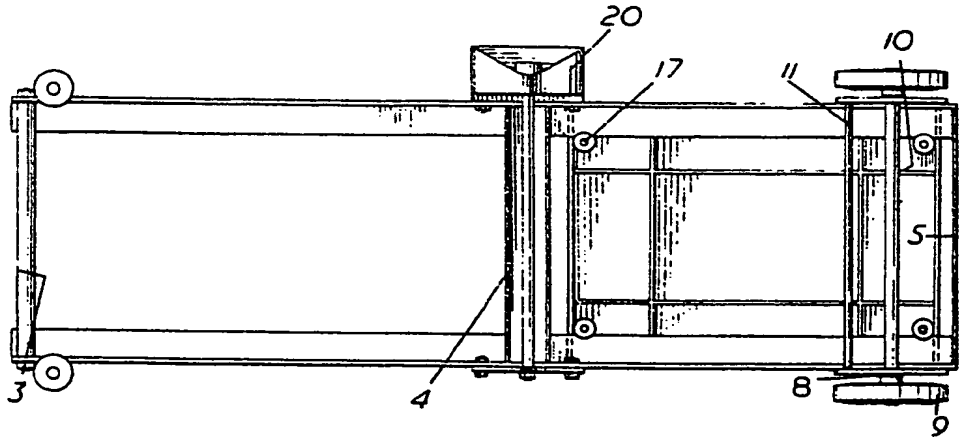


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FIG. 1.

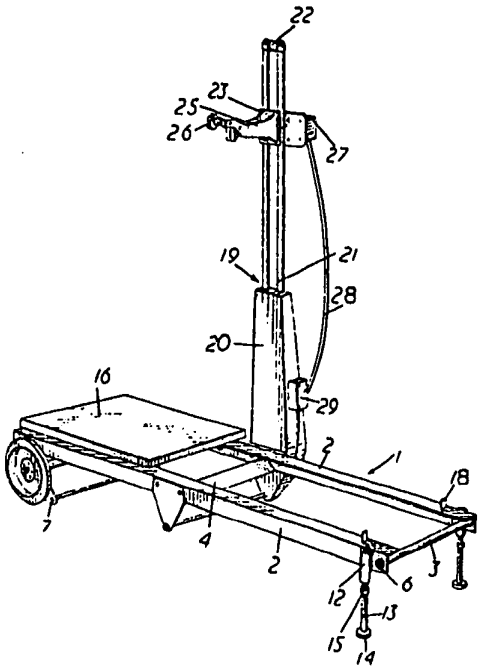

FIG. 2.

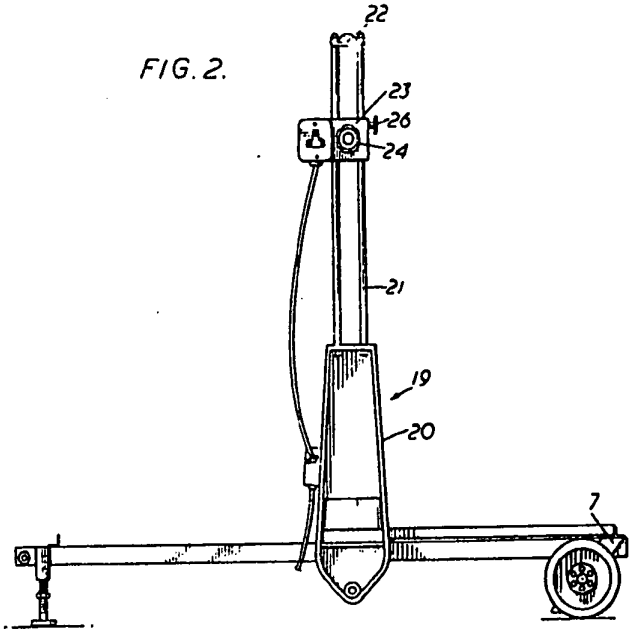

FIG. 3.